

Space Science Seminar

Friday, 2015 June 5

10:30 a.m.

NSSTC/4078

Future Mission Concepts for Gamma-Ray Astronomy

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Host: Dr. Linda Sparke

Gamma-Ray astronomy is currently in an exciting period of multiple missions and a wealth of data. Results from Fermi, Swift, INTEGRAL and NuSTAR are making large contributions to our knowledge of high-energy processes in the universe. It will be challenging to obtain resources for future missions, but there are opportunities to be had. New detector and imaging technologies are the key to success. These include new scintillation detectors, scintillating fibers, lower-cost semi-conductor detectors, gas detectors, multilayer mirrors, Laue lens and Lobster-style optics. This talk will examine the scientific drivers for future high-energy missions and discuss the technologies and mission concepts being considered around the world.

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